

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					

Wednesday, October 07, 2015 12:44:32 PM

Item ID: D350-561-141

Accept

N900040100

Setup Start *NS1*

Revision ID:

Stop *NS2*

Item Name: Single Mirror Installation RH

Start Date: 9/29/15 **Start Qty:** 1.00 ***1***

Cust Item ID:

Required Date: 10/07/15 **Req'd Qty:** 1.00 *** 1 ***

Customer:

Reference:

Run Start *NR1*

Approvals: _____ **Process Plan:** _____ **Date:** _____ **Tooling:** _____ **Date:** _____

Stop ***NR2***

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

120

0.00

120

Packaging

0.00

Packaging

Memo

Packaging

Identify and pack for shipping as per PPP D350-561-141
LOCATION: FG011

DAS
27

FEB 03 2016

130

QC21- Final Inspection - Work Order Release

0.00

130

QC

Memo

0.00

Quality Control

FEB 03 2016

FEB 03 2016

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		OTHER : ☐							

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137734

D350-561-141

Required Date: 10/07/15

Required Qty: 1.00

Comments: IPP A 07.07.26 new issue (DSI9379) EC verified by:JLM IPP rev
B 10.02.16 per ecn 10-523 EC verified by: DD IPP Rev:C add pick kit
DD 10.03.15 verified by:EC IPP Rev:D 10.09.14 per IIN revD
DD verified by:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D2011-101 *D2011-101* Mirror 6"		Manufactured	No			105	Each	17.0000	1	1			
				<u>Location</u>			<u>Loc Qty</u>	<u>Loc Code</u>					
				FG			2						
					106348		2						
				ST384			15						
					122000		8						
					135152		7						
D2012-105 *D2012-105* Arm (31.06)		Manufactured	No			105	Each	6.0000	1	1			
				<u>Location</u>			<u>Loc Qty</u>	<u>Loc Code</u>					
				st376			6						
					135301		6						
D2012-107 *D2012-107* Clevis		Manufactured	No			105	Each	8.0000	1	1			
				<u>Location</u>			<u>Loc Qty</u>	<u>Loc Code</u>					
				WA004			8						
					127296		8						

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Root Cause				FAULT CATEGORY																																																																																																																											
Environment	☐	Design	☐	Doc/Data	☐	Equip/Tooling	☐	Handling/Pre	☐	Material	☐	Internal Transport	☐	Tribal Knowledge	☐	LOA	☐	Substation	☐	Past Expiry Date	☐	Misidentified	☐	No Re-verification	☐	Operator	☐	Offset/Setup	☐	Supplier	☐	Training	☐	Use for Testing	☐	Poor Information	☐	Rushing	☐	Product Improvement	☐	Process Improvement	☐	Manufacturing Process	☐	Past Due	☐	Pressure/Forced	☐	Bending	☐	Centre Not Concentric	☐	Cracks	☐	Crimp/Kink/Ripple/Wave	☐	Cuffs	☐	Crushing	☐	Heat Treat	☐	Wave/Twist in Tube	☐	Marks/Chatter	☐	Temperature/Cure	☐	Set-up	☐	BOM/Route	☐	Broken/Damage/Defect	☐	Inspection Incomplete/Unqualified	☐	Contamination	☐	Countersink	☐	Cut Too Short	☐	Instructions Incomplete/Unclear	☐	Drill Holes	☐	Power Loss/Surge	☐	Folio/Program	☐	Grain	☐	Weld	☐	Wrong Stock Pulled	☐	Out of Sequence	☐	Off-set	☐	Mislabeled	☐	Fit/Function	☐	Misaligned/off center	☐	Positioned Wrong	☐	Outside Dimensions	☐	Over/Under tolerance	☐	Part Incorrect	☐	Part Lost/Missing	☐	Part Moved	☐	Drawing	☐	Finish	☐	Misread	☐	Turning Sequence	☐
OTHER : _____																																																																																																																															

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Work Order ID: 137734

137734

Parent Item: D350-561-141

D350-561-141

Parent Item Name: Single Mirror Installation RH

Start Date: 9/29/15

Required Date: 10/07/15

Start Qty: 1.00

Required Qty: 1.00

D2012-111

Manufactured No

105 Each

22.0000

1 1

D2012-111

Bracket

Location

Loc Qty

Loc Code

ST001

22

112972

22

D2012-115

Manufactured No

105 Each

12.0000

1 1

D2012-115

Bracket, Clevis

Location

Loc Qty

Loc Code

ST001

12

136240

12

D2022-101

Manufactured No

105 Each

129.0000

2 2

D2022-101

Spacer

Location

Loc Qty

Loc Code

ST001

39

107903

39

ST012a

90

132703

90

D3629-1

Manufactured No

105 Each

2.0000

1 1

D3629-1

Bracket

Location

Loc Qty

Loc Code

ST047

2

113674

2

DAS
27
9-89

DAS
6
9-89
DAS
28
9-89

DAS
6
9-89
DAS
28
9-89

DAS
6
9-89
DAS
28
9-89

DAS
6
9-89
DAS
28
9-89

JAN 18 2016

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Work Order ID: 137734

137734

Parent Item: D350-561-141

D350-561-141

Parent Item Name: Single Mirror Installation RH

Start Date: 9/29/15

Required Date: 10/07/15

Start Qty: 1.00

Required Qty: 1.00

D3635-1 Manufactured No

105 Each

6.0000

1 1

D3635-1

Gasket

**

DAS 28
6 9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST047

6

94552

6

D3646-1 Manufactured No

105 Each

9.0000

1 1

D3646-1

Arm

**

DAS 28
6 9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

st376

9

119682
137330

3

6

D3646-3 Manufactured No

105 Each

5.0000

1 1

D3646-3

Arm

**

DAS 28
6 9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

st376

5

113496
135599

2

3

D4070-041 Manufactured No

105 Each

7.0000

2 2

D4070-041

Clamp

**

DAS 28
6 9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST076

7

124340

7

JAN 18 2016

DAS 28
6 9-89

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Root Cause				FAULT CATEGORY							
Environment	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐	Power Loss/Surge	☐	Positioned Wrong	☐
Design	☐	Operator	☐	Bending	☐	Set-up	☐	Folio/Program	☐	Outside Dimensions	☐
Doc/Data	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐	Grain	☐	Over/Under tolerance	☐
Equip/Tooling	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐	Weld	☐	Part Incorrect	☐
Handling/Pre	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐	Wrong Stock Pulled	☐	Part Lost/Missing	☐
Material	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐	Out of Sequence	☐	Part Moved	☐
Internal Transport	☐	Poor Information	☐	Crushing	☐	Countersink	☐	Off-set	☐	Drawing	☐
Tribal Knowledge	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐	Mislabeled	☐	Finish	☐
LOA	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐	Fit/Function	☐	Misread	☐
Substation	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐	Misaligned/off center	☐	Turning Sequence	☐
Past Expiry Date	☐	Manufacturing Process	☐	OTHER : _____							
Misidentified	☐	Past Due	☐								

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Work Order ID: 137734

137734

Parent Item: D350-561-141

D350-561-141

Parent Item Name: Single Mirror Installation RH

Start Date: 9/29/15

Required Date: 10/07/15

Start Qty: 1.00

Required Qty: 1.00

AN3-5A Purchased No

105 Each

170.0000

6 6

AN3-5A

Bolt

**

133686

DAS
6
9-89 DAS
28
9-89

Location

Loc Qty

Loc Code

CA 130
m129682 130
FP001 40
m133234 40

AN3-6A Purchased No

105 Each

136.0000

1 1

AN3-6A

Bolt

**

DAS
6
9-89 DAS
28
9-89

Location

Loc Qty

Loc Code

ST338a 100
M131305 100
ST349 36
M133064 36

AN4-5A Purchased No

105 Each

136.0000

3 3

AN4-5A

BOLT

**

DAS
6
9-89 DAS
28
9-89

Location

Loc Qty

Loc Code

CA 55
m129682 55
ST325A 50
m133064 50
ST345 31
120562 4
6651 1
m132317 26

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137734

Parent Item: D350-561-141

D350-561-141

Parent Item Name: Single Mirror Installation RH

Start Date: 9/29/15

Required Date: 10/07/15

Start Qty: 1.00

Required Qty: 1.00

AN4-10A Purchased No

105 Each 133.0000 1 1

AN4-10A
Bolt

**

DAS
6
9-89

DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

CA	17
M129682	17
ST325A	100
M133234	100
ST345	16
131677	16

NAS1149D0363J Purchased No

105 Each 1,117.000 8 8

NAS1149D0363.J
Washer

**

133790

DAS
6
9-89

DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

CA	246
m130799	246
GA	240
m130799	240
ST269	631
m126319	7
m131618	1
m132317	10
m132677	42
m133031	571

JAN 18 2016

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Root Cause				FAULT CATEGORY							
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Design	☐	Operator	☐	Bending	☐	Set-up	☐	Folio/Program	☐	Outside Dimensions	☐
Doc/Data	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐	Grain	☐	Over/Under tolerance	☐
Equip/Tooling	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐	Weld	☐	Part Incorrect	☐
Handling/Pre	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐	Wrong Stock Pulled	☐	Part Lost/Missing	☐
Material	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐	Out of Sequence	☐	Part Moved	☐
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Tribal Knowledge	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐	Mislabeled	☐	Finish	☐
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Past Expiry Date	☐	Manufacturing Process	☐	OTHER :							
Misidentified	☐	Past Due	☐								

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Work Order ID: 137734

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Parent Item: D350-561-141

D350-561-141

Parent Item Name: Single Mirror Installation RH

Start Date: 9/29/15

Required Date: 10/07/15

Start Qty: 1.00

Required Qty: 1.00

NAS1149D0463J

Purchased

No

105

Each

5,688.000

8

8

NAS1149D0463J

WASHER

**

133932

68-6

DAS

9

28

DAS

9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

GA	41	
M129390	41	
ST260a	3500	
M133284	2000	
M133316	1500	
ST269	2147	
M129682	62	
M130799	371	
M132317	101	
M132677	888	
M133077	725	

MS21042L3

Purchased

No

105

Each

838.0000

4

4

MS21042L3

Nut

**

133790

DAS

DAS

6

28

9-89

JAN 18 2016

DAS
27
9-89

Location

Loc Qty

Loc Code

FP001	334	
M130922	334	
GA	153	
M131317	153	
ST305	351	
116549	12	
126333	49	
M128754	2	
M132123	17	
M132382	2	
M132883	17	
M133134	252	

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐							
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval				
Description Work Order Deviation				Disposition							
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐		☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due		☐ Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter		FAULT CATEGORY ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes		☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center		☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence	
				OTHER :							

Picklist Print

Wednesday, October 07, 2015 12:44:32 PM

Work Order ID: 137734

137734

Parent Item: D350-561-141

D350-561-141

Parent Item Name: Single Mirror Installation RH

Start Date: 9/29/15

Required Date: 10/07/15

Start Qty: 1.00

Required Qty: 1.00

MS210421A

Purchased

No

105

Each

1,327.000

4

4

MS210421 4

Locknut

**

DAS
6
9-89

JAN 18 2018

DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

FP001

2

m124231

2

GA

112

m127813

112

ST260a

170

m130799

56

m131803

6

m132262

108

ST305

1043

m128300

8

m130388

7

m130922

97

m131618

12

m132123

56

m132382

763

m133316

100

137769

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By _____ Lead hand / Supervisor Approval Verification _____ QC / QA Coordinator Approval _____		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
		OTHER : ☐							

5. PARTS LIST

Qty -041	Qty -043	Qty -045	Qty -141	Qty -143	Qty -241	Qty -243	Part Number	Description
X	1						D350-561-041	SINGLE MIRROR INSTALLATION, RH
	X						D350-561-043	DUAL MIRROR INSTALLATION, RH
	1	X		1		1	D350-561-045	MIRROR KIT
			X	1			D350-561-141	SINGLE MIRROR INSTALLATION, RH
				X			D350-561-143	DUAL MIRROR INSTALLATION, RH
					X	1	D350-561-241	SINGLE MIRROR INSTALLATION, LH
						X	D350-561-243	DUAL MIRROR INSTALLATION, LH
1		1	1		1		D2011-101	Mirror
1							D2012-101	Arm
1							D2012-103	Arm
1			1				D2012-105	Arm
					1		D2012-106	Arm
2			1		1		D2012-107	Clevis
1							D2012-109	Bracket
1			1		1		D2012-111	Bracket
4		2					D2012-113	Clamp
1			1		1		D2012-115	Bracket
4			2		2		D2022-101	Spacer
4							D2856-100-325	Abrasion Strip
1*		1*	1*		1*		D3014-1	Locknut
			1		1		D3629-1	Bracket
			1		1		D3635-1	Gasket
		2					D3635-3	Gasket
			1				D3646-1	Arm
					1		D3646-2	Arm
			1				D3646-3	Arm
					1		D3646-4	Arm
			2		2		D4070-041	Clamp
2							AN3-4A	Bolt
2		2	6		6		AN3-5A	Bolt
1			1		1		AN3-6A	Bolt
2			1		1		AN4-10A	Bolt
3			3		3		AN4-5A	Bolt
14		4	8		8		AN960JD30	Washer
9		2	8		8		AN960JD416	Washer
1*		1*	1*		1*		AN960JD416L	Washer
5		2	4		4		MS21042L3	Nut (or MS21042-3)
5			4		4		MS21042L4	Nut (or MS21042-4)

*INCLUDED AS PART OF D2011-101 MIRROR